

Improved Braze Alloy

Abstract

A braze alloy is described which includes indium and/or thallium as alloying elements. For example, between about 0.5% and about 10% by weight of indium (In) and/or thallium (Tl) can be added to a braze alloy to reduce the braze temperature without substantially effecting braze strength. Braze alloys that are alloyed to including indium (In) and/or thallium (Tl) can be use in brazing cutting elements to drilling tools. These alloying elements may also be added to braze alloys used for other applications to reduce braze temperature.